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Group Art Unit 1615

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IN THE CLAIMS:

1. (Previously Presented) An implantable or insertable medical device comprising a release

region, said release region comprising (a) a polymeric carrier comprising a hydrophobic first

polymer and (b) drug loaded nanoparticles dispersed within said polymeric carrier, said drug

loaded nanoparticles comprising: silicate particles comprising a layered silicate material; a

hydrophilic first therapeutic agent; and a hydrophilic second polymer, wherein the first therapeutic

agent and hydrophilic second polymer are structurally associated with the silicate particles in that

the first therapeutic agent and hydrophilic second polymer occupy spaces between adjacent layers

of the silicate material of each silicate particle to form a depot for the first therapeutic agent.

2. (Canceled)

3. (Previously Presented) The medical device of claim 1, wherein said medical device is a

vascular medical device, wherein said first therapeutic agent is halofuginone HBr, and wherein

said first polymer is a polyolefin-polyvinylaromatic block copolymer.

4.–9. (Canceled)

10. (Withdrawn) The medical device of claim 1, wherein said medical article is a vascular medical

device, wherein said first therapeutic agent is halofuginone HBr, wherein said first polymer is a

polyolefin-polyvinylaromatic block copolymer, and wherein said second polymer is a hydrophilic

polymer selected from hyaluronic acid, collagen, heparin, chrondroitin sulfate, phosphoro choline,

dextran, and polyethylene oxide.

11. (Withdrawn) The medical device of claim 1, wherein said polymeric carrier further comprises

said first therapeutic agent.

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12. (Withdrawn) The medical device of claim 1, further comprising a second therapeutic agent.

13. (Withdrawn) The medical device of claim 12, wherein said polymeric carrier further

comprises said second therapeutic agent.

14. (Withdrawn) The medical device of claim 13, wherein said first therapeutic agent is

hydrophilic and said second therapeutic agents is hydrophobic.

15. (Withdrawn) The medical device of claim 12, wherein said nanoparticles further comprise

said second therapeutic agent.

16. (Withdrawn) The medical device of claim 15, wherein said first and second therapeutic agents

are hydrophilic.

17. (Previously Presented) The medical device of claim 1, wherein said release region is disposed

over at least a portion of a medical article substrate.

18. (Canceled)

19. (Previously Presented) The medical device of claim 1, wherein said device is adapted for

implantation or insertion into the coronary or peripheral vasculature.

20. (Withdrawn) The medical device of claim 19, wherein said device is adapted for implantation

or insertion into the esophagus, trachea, colon, biliary tract, urinary tract, prostate or brain.

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21. (Previously Presented) The medical device of claim 19, wherein said device is selected from a

catheter, a guide wire, a balloon, a filter, a stent, a stent graft, a vascular graft, a vascular patch, a

shunt, an electrode, a heart valve, a circulation pump, and an intraluminal paving system.

22. (Previously Presented) The medical device of claim 19, wherein said therapeutic agent is

selected from an anti-thrombotic agent, an anti-proliferative agent, an anti-inflammatory agent, an

anti-migratory agent, an agent affecting extracellular matrix production and organization, an

antineoplastic agent, an anti-mitotic agent, an anesthetic agent, an anti-coagulant, a vascular cell

growth promoter, a vascular cell growth inhibitor, a cholesterol-lowering agent, a vasodilating

agent, and an agent that interferes with endogenous vasoactive mechanisms.

23. (Previously Presented) The medical device of claim 1, wherein said layered silicate material

comprises synthetic or naturally occurring smectite.

24. (Withdrawn) The medical device of claim 1, wherein said layered silicate material comprises a

natural or synthetic silicate material selected from bentonite, aliettite, vermiculite, swinefordite,

montmorillonite, yakhontovite, nontronite, beidellite, volkonskoite, stevensite, hectorite, saponite,

laponite, sauconite, magadiite, kenyaite and ledikite.

25. (Previously Presented) A method of releasing a therapeutic agent to a patient comprising: (a)

providing the medical device of claim 1; and (b) contacting said medical article with a patient.

26. (Withdrawn) A method of providing the medical device of claim 1 comprising:

providing a release-region-forming fluid comprising (a) said first polymer species and (b)

said drug loaded nanoparticles; and

applying said release-region-forming fluid to a medical article substrate or to a releasable

template.

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27. (Previously Presented) The medical device of claim 1 wherein the silicate particles have a maximum cross-sectional length between 30 to 500 nm and spacing between the adjacent layers within the silicate particles is in the range of 5-20Å.

28. (Previously Presented) The medical device of claim 1 wherein said hydrophobic polymer is selected from the group consisting of olefin polymers and copolymers, styrene polymers and copolymers, halogenated hydrocarbon polymers and copolymers, vinyl polymers and copolymers, polymers and copolymers of acrylic acid esters, polymers and copolymers of methacrylic acid esters, polycarbonates, polyimides, polyetheretherketones, polyamides, polyvinylaceteates, polysulfones, polyethersulfones, polyethersulfones, polyurethanes and siloxane-urethane copolymers, and polyorganosiloxanes.